

ABSTRACT

An inflatable bladder positioned a distance from a joint is attached to an external structural support which crosses the joint but does not support it. By inflating the bladder one limb segment is forced towards the external support thereby increasing the ranges of motion of that joint. Further, the inflatable bladder has an instant release valve which, when pressed, will instantly release the pressure within the bladder. The limb is positioned intermediate the bladder and the external structural support for optimal biomechanical efficiency.